

Title (en)

BINDER CONTAINING MODIFIED SULFUR AND PROCESS FOR PRODUCING MATERIAL CONTAINING MODIFIED SULFUR

Title (de)

MODIFIZIERTEN SCHWEFEL ENTHALTENDES BINDEMITELE UND VERFAHREN ZUR HERSTELLUNG EINES MODIFIZIERTEN SCHWEFEL ENTHALTENDEN MATERIALS

Title (fr)

LIANT CONTENANT DU SOUFRE MODIFIÉ ET PROCÉDÉ SERVANT À PRODUIRE UNE MATIÈRE CONTENANT DU SOUFRE MODIFIÉ

Publication

EP 1961713 A4 20130116 (EN)

Application

EP 06832558 A 20061113

Priority

- JP 2006322546 W 20061113
- JP 2005328824 A 20051114

Abstract (en)

[origin: EP1961713A1] The present invention provides a method for producing a binding material containing modified sulfur which gives excellent ignition resistance, mechanical strength, water sealability, and resistance to sulfur-oxidizing bacteria, and which may be usable for sealing domestic and industrial wastes, and a method for producing, with easy control, a material containing modified sulfur using the binding material. The method for producing the binding material includes the steps of providing a starting material for modified sulfur composed of 100 parts by mass of sulfur and 0.1 to 25 parts by mass of ethylidene norbornene (ENB), mixing the starting material in a molten state at 120 to 160 °C, and when the viscosity at 140 °C of the resulting molten mixture falls in the range of 0.050 to 3.0 Pa·s, cooling the molten mixture down to a temperature not higher than 120 °C. The method for producing the material containing modified sulfur includes the steps of, after the binding material is prepared, mixing 10 to 50 mass % of the binding material and 50 to 90 mass% of aggregate at 120 to 160 °C, while the viscosity at 140 °C of the binding material is maintained within a range of 0.050 to 3.0 Pa·s, and cooling the resulting mixture down to a temperature not higher than 120 °C.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

- No further relevant documents disclosed
- See references of WO 2007055351A1

Cited by

US8721785B2; EP2281788A1; WO2011015647A1; US8859719B2; US9359256B2

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